

Certificate of Analysis

Analysed essential oil : Lemongrass

Analysis date : March, 7th 2017

Batch : 065BV702

Shelf life : April 2019

❖ General description

Essential oil	Lemongrass	Origin	Inde
Latin name	<i>Cymbopogon flexuosus</i>		

❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Yellow
Odour	Characteristic

❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0.898	0.885	<	d	<	0.905
Refractive index	1.4841	1.4830	<	IR	<	1.4890
Optical rotation	-2,05°	-4°	<	$[\alpha]^{20}_D$	<	+1°

❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite – WAX m, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H₂

⇒ See Chromatogram : polar column

Date : 2017-03-07

Software Version : 6.3.2.0646
Sample Name : Lemongrass 065BV702
Instrument Name : CLARUS 500
Rack/Vial : 0/4
Sample Amount : 1.000000
Cycle : 4

Date : 3/17/2017 9:52:46 AM
Data Acquisition Time : 3/6/2017 10:00:00 PM
Channel : B
Operator : Charlene
Dilution Factor : 1.000000

Result File :
Sequence File : C:\Sequences\CPG\2017\170306.seq

Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	tricyclene	2.90	0.11
2	pinene <alpha>	3.09	0.17
3	camphene	3.73	0.95
4		4.85	0.03
5	myrcene	5.87	0.07
6		6.43	0.04
7	limonene	6.65	0.23
8	phellandrene <beta>	6.87	0.05
9	ocimene <(Z)-beta>	7.87	0.32
10	ocimene <(E)-beta>	8.36	0.19
11		9.19	0.05
12		9.43	0.08
13	nonanone <4>	10.73	0.93
14	hepten-6-one <2-methyl-2>	11.05	1.32
15		11.59	0.03
16		13.51	0.26
17		14.11	0.08
18		15.43	0.03
19		15.92	0.33
20	citronellal	16.18	0.30
21		16.55	0.05
22		16.90	0.36
23		17.43	0.02
24		17.61	0.16
25		18.26	0.09
26	isocitral<Z>	18.61	0.90
27	linalool	19.02	1.11
28	linalool acetate	19.41	0.10
29	isocitral<E>	19.62	1.47
30	caryophyllene<E>+elemene<beta>	20.19	1.75
31	terpinen-4-ol	20.49	0.04
32		20.70	0.21
33		21.53	0.04
34		22.41	0.05
35	humulene <alpha>	22.72	0.24
36	neral	23.44	31.59
37	terpineol<alpha>	23.98	0.33
38	germacreneD	24.12	0.23
39		24.38	0.10
40	geranial+?	25.29	41.03
41	cidenene<gamma>+cadinene<delta>	26.00	1.35
42		26.17	0.08
43	geranyl acetate	26.43	3.63
44	citronellol	26.73	0.12
45		27.06	0.03
46	nerol	27.72	0.20
47		28.02	0.04
48	geraniol	29.46	6.60
49		30.32	0.13
50		31.00	0.11
51		31.96	0.38
52		32.46	0.16
53	caryophyllene oxide	32.71	0.49
54		32.91	0.03
55		33.31	0.10
56		33.77	0.03
57		34.46	0.12

3/17/2017 9:52:46 AM Result:

pic #	Nom composant	TR [min]	Aire [%]
58		35.33	0.07
59		35.63	0.06
60		36.39	0.07
61		38.09	0.02
62		40.38	0.04
63		40.70	0.03
64		41.72	0.03
65		43.07	0.05
66		43.72	0.43
67		44.27	0.11
68		51.00	0.02
69		51.95	0.03
			100.00

Laboratoire Rosier Davenne

Chromatogram

Sample Name : Lemongrass 065BV702 Sample #: 065BV702 Page 1 of 1
 FileName : C:\Data\Colonne Polaire\Huiles Essentielles\Lemongrass\2017\lemongrass 170306.raw
 Date : 3/17/2017 9:52:47 AM
 Method : lemongrass pur.mth Time of Injection: 3/6/2017 10:00:00 PM
 Start Time : 0.00 min End Time : 82.00 min Low Point : -27.10 mV High Point : 613.49 mV
 Plot Offset: -27.10 mV Plot Scale: 640.6 mV

